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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/700,414	11/04/2003	Richard Fastow	03-03	5776	
22443 75	90 08/12/2005	EXAMINER			
LAW OFFICE OF MONICA H CHOI			LE, THONG QUOC		
P O BOX 3424 DUBLIN, OH	430160204	ART UNIT	PAPER NUMBER		
,			2827		
			DATE MAILED: 08/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No		on No.	Applicant(s)				
Office Action Summary		10/700,4	14	FASTOW ET AL.				
		Examiner		Art Unit				
		Thong Q.		2827				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per re to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no evolution reply within the stated will apply and watute, cause the app	ent, however, may a reply be utory minimum of thirty (30) o ill expire SIX (6) MONTHS fro lication to become ABANDO	timely filed days will be considered time om the mailing date of this one of the content of the				
Status								
1)	Responsive to communication(s) filed on							
2a) <u></u> □	☐ This action is FINAL . 2b) ☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)□ 6)⊠ 7)□	4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by the Exam	niner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB er No(s)/Mail Date		4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		O-152)			

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DETAILED ACTION

1. Amendment filed on 06/24/2005 has been entered.

2. Claims 1-5, 35-57 are presented for examination.

Response to Arguments

3. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. (Pub. U.S. Patent No. 2005/002,4943)

Regarding claims 1-18, Chen et al. disclose a system for programming a group of at least one flash memory cell of an array (Figure 8), comprising:

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means for performing a first pass of program verify and programming steps until each flash memory cell of the group attains a threshold voltage that is at least X% of a program verify level but less than the program verify level after the first pass is completed; and means for performing after the first pass is completed. a second pass of program verify and programming steps until each flash memory cell of the group attains substantially the program verify level (Figures8-9, [0055-0056]).

More specifically, Chen et al. disclose a means for determining whether a flash memory cell of the group has not attained substantially X% of the program verify level, during the program verify step; and means for generating a programming pulse for the flash memory cell of the group that has not attained substantially X% of the program verify level, during the programming step (Figure 9, [0008]), and means for determining whether a flash memory cell of the group has not attained substantially of the program verify level, during the program verify step; and means for generating a programming pulse for the flash memory cell of the group that has not attained substantially X% of the program verify level, during the programming step (Figure 9, [0008]), and wherein the group includes a plurality of flash memory cells to be programmed to multi-level threshold voltages (ABSTRACT, Column 3, lines 1-5), the system further comprising: means for performing the first pass of program verify and programming steps until each flash memory cell of a first sub-group of the group attains a threshold voltage that is at least Y% of a first program verify level but less than the first program verify level, and until each flash memory cell of a second sub-group of the group attains a threshold voltage that is at least Z% of a second program verify level but less than the second

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program verify level; and means for performing the second pass of program verify and programming steps until each flash memory cell of the first sub-group attains substantially the first program verify level, and until each flash memory cell of the second sub-group attains substantially the second program verify level ([0040, 0055-0056], and wherein the at least one flash memory cell of the group is contained within a page of the array [0016], and a page buffer for storing a respective address of each flash memory cell of group (Figure 5, 321).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai V. Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le Primary Examiner Art Unit 2827

Moyle

THONG LEI
PRIMARY EXAMINER